ABSTRACT

A layer 2 switch network system includes a Radius
server that notifies an edge switch of a temporary MAC
address allocated to a terminal, and the edge switch that

5   acquires the temporary MAC address from the Radius server,
that stores therein swap data for associating the acquired
temporary MAC address with a real MAC address, that
converts the real MAC address of a source set in a MAC
frame to the temporary MAC address of the source when the

10   edge switch receives the MAC frame from the terminal, and
that converts the temporary MAC address of a destination
set in the MAC frame to the real MAC address of the
destination when the edge switch transmits the MAC frame to
the terminal, and enables safe and simple use of the

15   temporary MAC address.